

Installation

Connecting to Gigabit Ethernet

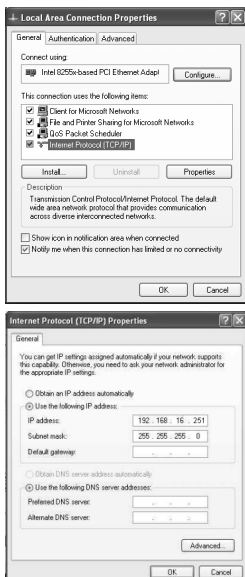
- The VDSL Switch has 2 x 10/100/1000 Mbps Gigabit Ethernet ports.
- Support full or half-duplex operation and transmission mode is using auto-negotiation.
- All network devices connected to the switch must support auto-negotiation. Devices without auto-negotiation will operate at half-duplex.
- Upgrade devices to support auto-negotiation and auto-crossover (MDI/MDIX) for full-duplex operation.
- Prepare straight through shielded or unshielded twisted-pair cables with RJ-45 plugs on both ends. Use 100 Category 5 cable for connections.
- When inserting an RJ-45 plug, be sure the tab on the plug clicks into position to ensure that it is properly seated.
- Connect one end of the cable to port 9 or 10 of the VDSL Switch, and the other end to a standard RJ-45 station port on cable modem, ADSL router, wireless bridge, etc.
- Do not plug a RJ-11 phone jack connector into the Ethernet port (RJ-45 port). This may damage the VDSL. Instead, use only twisted-pair cables with RJ-45 connectors that are compliant with the FCC standards

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IP Address	192.168.16.250
Subnet Mask	255.255.255.0
Username	admin
Password	123

IP Address Configuration

PC/Notebook must belong in the same IP range and subnet. Follow the steps below to configure IP settings for LAN PC.



Step 1.

In the control panel, double click on Network Connections. Double click on the local area connection (e.g. LAN). The following screen will appear. Highlight 'Internet Protocol (TCP/IP)' and click on 'Properties'.

Step 2.

Enter the IP address 192.168.16.x and subnet mask 255.255.255.0 then click <OK>.



P/N: 2300-0504

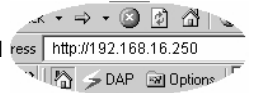
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Connecting to RJ-11

- Please ensure suitable VDSL Modem (SP3501AS) is installed before making a connection to any of the VDSL Switch (1-8) station ports. Users need to prepare 18 ~ 26 gauge one twist pair phone Line wiring with RJ-11 plugs at both ends.
- The Modem's RJ-11 ports are easy-to-use and do not require installation of additional wiring. Every RJ-11 modular phone jack in the home can become a port on the LAN.
- Networking devices can be installed on a single telephone wire that can span up to maximum of 1.7km between the two points.
- SP3508A has embedded Splitter between every VDSL side (VDSL Line) and POTS side (POTS port). It permits user to deliver broadband service on the same lines as Plain Old Telephone Service (POTS), PBX, ISDN traffic and VDSL Signal.
- When inserting a RJ-11 plug, be sure the tab on the plug clicks into position to ensure that it is properly seated.

Web-based User Interface

SP3508A is embedded with web-based UI and provides a series of web pages, which display the configuration and status of the system. After configuration of IP, the management interface can be access by entering the IP address of the switch into the browser.



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Micronet
Making Communication Easier



Quick Installation Guide

8-Port VDSL Managed Switch

Model No.: SP3508A

Web: www.micronet.com.tw

Introduction

Micronet SP3508A is an EoVDSL (Ethernet over VDSL) clustering switch that aggregates 8 VDSL lines into 2 Gigabit Ethernet uplinks. It delivers cost-effective and high-performance broadband / multimedia services to multiunit building environments, such as enterprise, campus, hospital, hotel, and telecom. With QAM-based 4-band VDSL technology, the VDSL solution dramatically extends Ethernet and supports 5M/15M/25Mbps symmetrical bandwidth over existing telephone-grade wiring up to 1.7 /1.1/0.6KM.

Package Contents

Prior to the installation of the device, please verify the following items are in the package:

- SP3508A VDSL Managed Switch
- Quick Installation Guide
- Manual CD
- Mounting Accessories
- AC Power Cord

Key Features

- Compliant with ETSI, ITU, ANSI standards
- Compliant with IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX and IEEE 802.3ab 1000BASE-T standards
- Support 8 x RJ-11 VDSL ports and 8 x RJ-11 POTS ports
- Support 2 x RJ-45 ports of 10/100/1000M for Gigabit uplink
- QAM-based 4-band VDSL
- Data rate up to symmetrical bandwidth of 25Mbps
- Wiring range up to 1.7 KM
- Auto-speed function for VDSL link
- Built-in POTS/ISDN splitter for POTS/ISDN telephone service
- Support detection of wiring quality with SNR(Signal to Noise Ratio) indications
- Full function of Layer 2 managed switch: IEEE 802.1q/p Tag-based VLAN, IEEE 802.1v Protocol-based VLAN, IEEE802.3ad LACP, IEEE 802.1d Spanning tree, IGMPv2, MAC/IP filtering, Port Mirror, and Broadcast Storm Control
- SNMPv1 and MIBs support: Bridge MIB, Ethernet MIB, MIB II
- Support management via Console Port, Telnet and Web-Based

Physical Description



Modem Connectors

Connectors	Description	Type
VDSL (1~8)	Connecting to the VDSL Modem via a RJ-11 cable	RJ-11
POTS (1~8)	Connecting to the telephone, Fax or ISDN modem	RJ-11
Gigabit Ethernet	Connecting to an Ethernet network device	RJ-45
Reset	Restart the switch	

Cabling Requirements

Connection Type	Cable Requirements	Maximum Length
Ethernet Port (RJ-45)	100 Mbps: Cat 5 UTP 10 Mbps: Cat 3-4 UTP	100 meters max for MUX or HUB to endpoint.
VDSL Port (RJ-11)	18-26 Gauge phone wiring.	5M/5M: 1.7km
	Do not recommend 28 or above Gauge.	15M/15M: 1.1km
		25M/25M: 600m

LED definition

LED	Status	Operation
PWR (Power LED)	Steady/Green	Device is powering on or reset ok
POST (Power On Self Testing)	Steady/Green	Light on when device is booting
	Off	Turn off when booting is finished
LINK (VDSL LED)	Steady/Green	Each VDSL port has a LED and lights up to show good linkage
10/ACT (Ethernet LED)	Steady/Green	Light up steadily to show good linkage at 10 Mbps
	Flash/Green	Flashing to show data transmission
100/ACT (Ethernet LED)	Steady/Green	Light up steadily to show good linkage at 100 Mbps
	Flash/Green	Flashing to show data transmission
1000/ACT (Ethernet LED)	Steady/Green	Light up steadily to show good linkage at 1000 Mbps
	Flash/Green	Flashing to show data transmission